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6/13/64

SUBSTITUTE SPECIFICATION

RECIPROCATING SURGICAL TOOL FOR USE AT VARIABLE ANGLES AND IN MULTIPLE DIRECTIONS

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a surgical saw for use in a bone cutting operation, and more particularly, to a reciprocating saw for use in cutting oral cavity bone, when an oral cavity bone cutting operation is performed by a linear reciprocation movement of the reciprocating saw blade without restriction within an approach direction.

2. Background Art

Reciprocating saws for surgical cutting operations of oral cavity bone are commonly used in plastic surgery. Since a bone cutting operation is preferably performed in a narrow space of the oral cavity, it is required to minimize the size of the reciprocating saw used therein. In addition, the optimization of bone cutting directions significantly affects the degree of difficulty, in a required limited time period, and pre-treatment for a surgical operation will also add to optimization of the procedure. However, a conventional surgical cutting saw does not provide such optimization of the surgical procedure.

As a conventional saw for surgical cutting operations, there are a sagittal saw, the saw blade of which is formed in the same direction as a handle thereof, as shown in FIG. 10, and an oscillating saw, the saw blade of which is formed to allow cuttings in a perpendicular direction with respect to a handle of the saw, as shown in FIGS. 11a and 11b even though the saw is